

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2017	HDICL07.6LEA	7.64	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION		
Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Selective Catalyst Reduction, Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, DEF Quality Sensor		Loader, Excavator, Forklift		

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	0.38	--	0.1	0.02	--	--	--

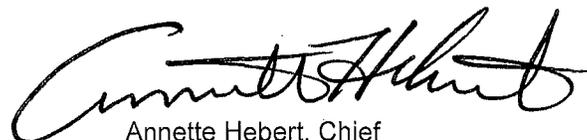
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order U-R-019-0152 dated February 01, 2017.

Executed at El Monte, California on this 27 day of April 2017.



Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

**U-R-019-0152-1
01/25/17**

<u>Engine Family</u>	<u>1.Engine Code</u>	<u>2.Engine Model</u>	<u>3.kW@RPM (SAE Gross)</u>	<u>4.Fuel Rate: mm/stroke @ peak kW (for diesel only)</u>	<u>5.Fuel Rate: (kg/hr) @ peak kW (for diesels only)</u>	<u>6.Torque Nm@ RPM (SEA Gross)</u>	<u>7.Fuel Rate: mm/stroke@peak torque</u>	<u>8.Fuel Rate: (kg/hr)@peak torque</u>	<u>9.Emission Control Device Per SAE J1930</u>
HDICL07.6LEA	DL08-LEE01	DL08P	213 @ 1,800	168	43.6	1,275 @ 1,300	187	35.0	EGR,DOC,SCR, DFI, TC,CAC,ECM, DQS
HDICL07.6LEA	DL08-LEE00	DL08P	202 @ 1,800	159	41.2	1,275 @ 1,300	187	35.0	EGR,DOC,SCR,DFI, TC,CAC,ECM, DQS
HDICL07.6LEA	DL08-LEL00	DL08P	202 @ 1,800	159	41.2	1,275 @ 1,300	187	35.0	EGR,DOC,SCR,DFI, TC,CAC,ECM, DQS
HDICL07.6LEA	DL08-LEL01	DL08P	202 @ 1,800	159	41.2	1,275 @ 1,300	187	35.0	EGR,DOC,SCR,DFI, TC,CAC,ECM, DQS
HDICL07.6LEA	DL08-LEF00	DL08P	213 @ 2,100	155	46.8	1,235 @ 1,300	180	33.7	EGR,DOC,SCR,DFI, TC,CAC,ECM, DQS
HDICL07.6LEA	DL08-LEF01	DL08P	184 @ 2,100	132	39.9	1,157 @ 1,300	169	31.6	EGR,DOC,SCR,DFI, TC,CAC,ECM, DQS